Programmer's Manual

UnMakeInstall
Version 1.0.0.1 (Solaris 2.5.1)

December 9, 1997

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Preface

The following conventions are used in this document:

Bold	Used for information that is typed, pressed, or selected in executables and instructions. For example, select **connect to host**.
Italics	Used for file names, directories, scripts, commands, user IDs, document names, and Bibliography references; and any unusual computerese the first time it is used in text.
<u>Underline</u>	Used for emphasis.
Arrows <>	Used to identify keys on the keyboard. For example <Return>.
"Quotation Marks"	Used to identify informal, computer-generated queries and reports, or coined names; and to clarify a term when it appears for the first time. For example "Data-Generation Report."
`Courier Font`	Used to denote anything as it appears on the screen or command lines. For example `tar xvf dev/rmt/3mm`.
Capitalization	Used to identify keys, screen icons, screen buttons, field, and menu names.

1. Software Programmer's Manual

1.1 Scope

This Software Programmer's Manual (SPM) refers to the UnMakeInstall developer tool and the parameters it uses for the Defense Information Infrastructure (DII) for SUN (Solaris)-based machines.

1.1.1 Identification

This section contains identification information for the UnMakeInstall developer tool:

Segment Name:	UnMakeInstall
Segment Type:	TOOL
Prefix:	unmake
Home Directory:	*/h/TOOLS/DII_DEV/bin*
Required License:	None.
Version Number:	1.0.0.1
Platform:	SUN (UNIX) Workstation/Solaris 2.5.1

1.1.2 System Overview

Purpose:	UnMakeInstall is a tool that allows developers to extract individual segments from MakeInstall formatted media. Users can unbundle segments from existing MakeInstall tapes so that they may subsequently create custom installation packages for their respective field units.
Usage:	The tool is a command line invoked executable that uses the system supplied tar, uncompress, dd, and tape handling utilities to extract segments files from a tape.
References:	See the section of this UnMakeInstall *Programmer's Manual* for more information.

1.1.3 Product Information

Product Qualification	This tool is for use in modifying segment tapes. UnMakeInstall extracts from a tape, the files that constitute a segment installation and makes them available for editing on a disk or recombination onto other tapes with different segments.

**Product
Restrictions** This is a developer tool for use with the DII COE. There are no restrictions in addition to any that may be placed on the COE.

**Product
Dependencies** This product does not depend on any segments other than the operating system and its related utilities. Specifically this tool uses the unix system utilities dd, tar, uncompress, and mt. All segment testing was performed on SUN Unix workstations running Solaris 2.5.1 and the DII COE Kernel Version 3.2 (V3.2).

2. Referenced Documents

This and other tool documentation provides software description and installation instructions. Instructions on how to use the tool may be found in the appropiate section of this *Programmer's Manual*.

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3. Programmer's Reference

This section provides information on the parameters that UnMakeInstall uses.

3.1   Command Syntax

```
UnMakeInstall [flags]
```

3.2   Usable Flags

`-a`	Extract all segments from the tape to the previously defined path or to the current working directory if a path has not been specified.
`-C <file>`	Read command line arguments from the named `<file>`. Any options set in the specified file may affect any commands that follow, for example setting an extraction path.
`-f`	Echo each segment name once as it is extracted.
`-h, -H`	Display this help message.
`-p <path>`	Extract any segments following this option to the specified path.
`-s <segments>`	Extract the specified segments.
`-S <file>`	Extract the segments listed in the specified file.
`-t <dev>`	Set the location of the tape drive to extract from. If "dev" is not a fully specified path such as /dev/rmt/0mn, but is a device number such as 0, then the device will be looked for in /dev/rmt. The device specified must have the medium density option set (m), and the no-rewind option set (n). If no options follow the device number, these options will be appended (mn).
`-T <field>`	Print the table of contents. An optional argument may be placed here. The arguments "prefix", "name", "version", and "size" indicate fields that the table of contents should be sorted by. Any other argument will default to sorting by the segment's position on the tape.
`-v`	Set verbose mode. Verbose messages will be printed.
`-V`	Print the version number of this tool.

3.3   Usable Notes

C   If no extraction path is specified, the segment or segments will be extracted into the current working directoy.

C   The -v -f -h and -V options are considered by UnMakeInstall to be 'state' options. State options are options that affect the operation of UnMakeInstall without affecting the extraction of segments or the target directories of such extraction.

C   All other options with the exception of '-t' are positional options and are parsed in the

order they are input to UnMakeInstall.

C   UnMakeInstall looks for the first '-t' option on the command line to get the location of a tape. If it can not be found there, UnMakeInstall will look in the first command file, if any, specified on the command line. If the first -t cannot be found on the command line or in the first command file, UnMakeInstall will proceed to look for the '-t' option in the first command file, if any, specified in the first command file specified on the command line. It will continue searching for the first -t option in a depth first search through all the named command files. If a -t option cannot be found, UnMakeInstall will print an error message and exit. All -t options following the first -t option will be ignored.

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4. Notes

None.

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